Characteristics of molten lead oxide-silica glasses. Stek. 1 ker. 17 no.6:34-37 Je 160. (MIRA 13:6)

(Glass)

S/073/60/026/002/007/015 B023/B067

AUTHORS: Minenko, V. I., Petrov, S. M., and Kirilenko, L. F.

TITLE: Study of the System PbO - SiO₂ by the Method of Electromotive Forces

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 2, pp. 195-197

TEXT: The authors studied the PbO - SiO₂ system by the emf method at 940°C in a concentration range where this system is homogeneous. Concentration chains Pt/PbO(c₁) + SiO₂/Al₂O₃/SiO₂ + PbO(c₂)/Pt were studied. A cutectic with the following composition served as standard melt: 29.6 wt% SiO₂ and 70.4 wt% PbO. The data obtained proved the dependence of emf on the composition. In the melts of the PbO - SiO₂ system corresponding to the formulas 4PbO·SiO₂, 2PbO·SiO₂, PbO·SiO₂, and 2PbO·3SiO₂, the authors observed sudden changes of emf. This indicates that four types of Card 1/3

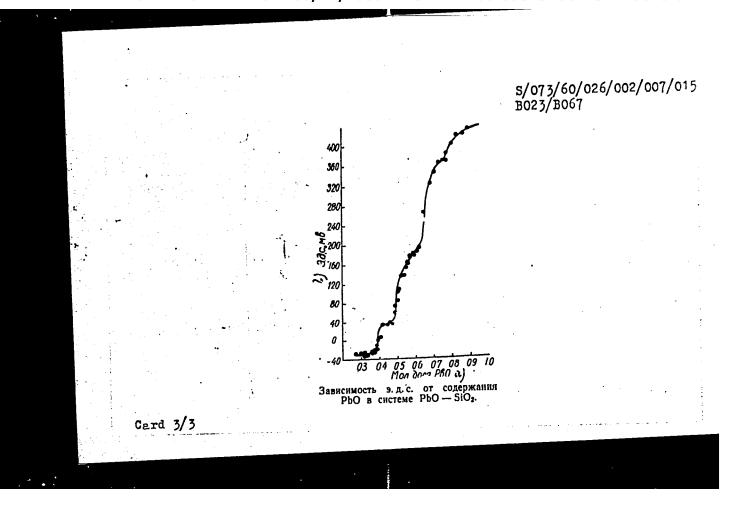
Study of the System PbO - SiO₂ by the Method of S/073/60/026/002/007/015 Electromotive Forces

ionic complexes are present in these melts. On the basis of the values obtained for sudden changes of emf, the authors note that the compounds corresponding to the formulas 2Pb0.SiO_2 , Pb0.SiO_2 , and 2Pb0.JSiO_2 are sufficiently stable, whereas the stability of the complex corresponding to the formula 4Pb0.SiO_2 was low under the experimental conditions. A figure illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the dependence of emf on the PbO content in the system illustrates the emf of the pbO content in the system illustrates the emf of the pbO content illustrates the emf of the

ASSOCIATION: Khar'kovskiy inzhenerno-ekonomicheskiy institut, laboratoriya fizicheskoy khimii (Khar'kov Institute of Management Engineers, Laboratory of Physical Chemistry)

SUBMITTED: December 15, 1958

Card 2/3



MINENKO, V.I.; PETROV, S.M.; IVANOVA, N.S.

Properties of the melts of the PbO - SiO₂ system as studied by the electromotive force method at 1200°C. Izv.vys.ucheb.zav.; khim.i khim.tekh. 4 no.1:3-6 *61. (MIRA 14:6)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut, kafedra obshchey khimii.

(Lead oxide) (Silica)

S/076/61/035/007/013/019 B127/B208

AUTHORS:

Minenko, V. I., Petrov, S. M., and Ivanova, N. S.

TITLE:

The behavior of a platinum electrode in silicate melts

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 7, 1961, 1534-1537

TEXT: The purpose of this study was to design an electrode for investigating melts containing oxides of various metals, since the errors of previous methods were 10-15%. The platinum electrode was tested in concentration cells of the type $\text{Pt}, O_2(P_{O_2})$ (melt I), $|\text{Al}_2O_3|$ (melt II) $O_2(P_{O_2})$, Pt with the electrolytes PbO-SiO_2 , $\text{Na}_2\text{O-CaO-SiO}_2$ and MeO-PbO-SiO_2 , MeO being oxides of the alkaline earth group. A reaction of the following type was assumed in each case: $2 O^{2-} = O_2 + 4e$. The dependence of the potential of the platinum electrode on the activity of the oxygen ions may be expressed by the formula: $\pi = \text{A-B} \log a_2$. The quantity n in the relation

S/076/61/035/007/013/019 B127/B208

The behavior of a platinum...

B=2.303 RT/nF was about 4 in all cases. The emf of the cell: Pt, $O_2(P_{O_2} = 0.21 \text{ at}) | PbO (70.4 \text{ wt \%}) + SiO_2(29.6 \text{ wt \%}) | Al_2O_3 | SiO_2(100- x \text{ wt \%}) + PbO (x wt \%) | O_2(P_{O_2}^4 = 0.21 \text{ at}), pt as a function of the logarithm of the molar content of PbO (1+log N_{PbO}) in the system 4 PbO.SiO_2-PbO at 490°C is given by a straight line. At <math>1000^{\circ}$ C the emf of the cells is also a linear function of (1+log P_{O^2}). By increasing the partial pressure P_0^4 the potential becomes more positive and $\pi=A^4+B^4\log P_0^4$ holds, where $A^4=A-B\log P_0^2$, $B^4=2.303$ RT/nF. The following reactions take place at the electrode: $O_2(P_1) = 2 O^{2-1}$ (Pt) $= 2 O^{2-1}$ (melt). The first process depends on the O_2 pressure in the gaseous phase, the second on the electrode surface, the third on the activity of the oxygen ions in the melt. The potential of

Card 2/3

The behavior of a platinum...

3/076/61/035/007/013/019 B127/B208

the platinum electrode is determined by $\pi = A - B \log a_{0^{2}} + B' \log p'_{0_{2}}$.

There are 3 figures and 6 references: 3 Soviet-bloc and 3 non Soviet-bloc. The most recent references to English-language publications read as follows: Ref. 2: S. N. Flengas et. al.: Canad. J. Chem. 35, 1254, 1957, Ref. 5: R. K. Edwards et. al.: J. Phys. Chem., 61, 255, 1957.

ASSOCIATION: Khar'kovskiy inzhenerno-ekonomicheskiy institut

(Khar'kov Engineering and Economical Institute)

SUBMITTED: September 5, 1959

Card 3/3

MINENKO, V.I.; PETROV, S.M.; IVANOVA, N.S.

Behavior of the platinum electrode in electrochemical studies of molten oxide mixtures. Zhur.fiz.khim. 36 no.10:2300-2302 0 162. (MIRA 17:4)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut, laboratoriya fizicheskoy khimii.

MINENKO, V.I.; IVANOVA, N.S.

Thermodynamic properties of molten lead silicates. Izv. vys. ucheb. zav.; tsvet. met. 6 no.3:64-69 63. (MINA 16:9)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut, kafedra khimii. (Lead sillicates--Thermodynamic properties)

MINENKO, V.I., kand. tekhn. nauk; ROMAS'KO, S.D., kand. geologomineralogicheskikh nauk; BILYACH, L.I., inzh.

Crystal chemistry techniques for checking magnetic treatment of feed water. Teploenergetika 10 no.9:48-50 S '63. (MIRA 16:10)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut. (Feed-water purification)

MINENKO, V.I.; IVANOVA, N.S.

بخموز مسه

Activity of lead oxide in melts of the PbO - SiO₂ system. Ukr. khim. zhur. 29 no.11:1160-1164 '63. (MIRA 16:12)

1. Khar'kovskiy inzhenerno-stroitel'nyy institut.

AUTHOR: Minenko, V. I.; Ivanova, N. S.; Falth Minester Source: Electrode functions of some oxide refractions. GOURCE: Ukrainskiy khimicheskiy zhurnal, v. Source: Ukrainskiy khimicheskiy zhurnal, v.	ctories 6 B 1, no. 8, 1985, 804-810 fractory oxide, magnesium oxid
AUTHOR: Minenko, V. I.; Ivanova, N. S.; Falth Miles Source: Electrode functions of some oxide refractions. Source: Ukrainskiy khimicheskiy zhurnal, v. Sou	ctories 6 B 1, no. 8, 1985, 804-810 fractory oxide, magnesium oxid
FITLE: Electrode functions of some oxide refra SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 3 FOPIC TAGS: electrode, electrode potential, resirconium compound ABSTRACT: These materials can be utilized for rode with cathode or anode functions, similar to	ctories 6 B 1, no. 8, 1985, 804-810 fractory oxide, magnesium oxid
TOPIC TAGS: electrode, electrode potential, resirconium compound ABSTRACT: These materials can be utilized for rode with cathode or anode functions, similar to	fractory oxide, magnesium oxid
ABSTRACT: These materials can be utilized for rode with cathode or anode functions, similar to	
rode with cathode or anode functions, similar to	
leals with the study of the potential (EMF) of succeeding the composition and the possibility for usuation cells as membranes having the function of the following types were studied: PT, $O_2/\text{melt I/R}_nO_m/\text{melt II/O}_2$, Me/ melt/ $O_2(P_{O_2} = 1 \text{ amp})$, Pt, Me/ melt II/ $R_nO_m/\text{melt I/Me}$, and $1/3$	glass electrodes. The work th membranes as a function of ting them in chemical or concen- f a metallic electrode. 'Galvanio

L 1590-66

ACCESSION NR: AP5020954

Me, $[O] = a/R_nO_m/Me$, [O] = x (D) Me/ $R_nO_m/melt/O_2(P_{O2} = 1 \text{ amp})$, Pt (E)

where R_nO_m was made of MgO (addition 5-8% MgO. Al₂O₃), zirconium (addition 8-10% CaO), or aluminum (corundum). The additions were to serve as binders to increase the amount of ion-oxygen vacancies in the lattice and decrease the share of electron conductivity. Lead or other silicates were used as electrolytes EMF was measured at 1213, 1273, 1373 and 1473 K, and stable EMF values were usually obtained after 20-30 minutes. Formulas are given for determining the function \(\phi_n \) for such electrodes, and their applicability to the various cell systems is discussed. The metallic function of oxide refractories may be represented as a result not only of the activity of oxygen ions but also of cations. Cell E was the ideal type. Measurement data and calculations agreed satisfactorily and point toward the possibility of using magnesium and zirconium oxide membranes that separate the metal from the electrolyte as electrodes with metallic function, that is, their potential is determined by the ion activity of the given metal in the electrolyte. Orig. art. has: 6 formulas and 3 tables.

Card 2/3

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ACCESSION NR: AP5020954 ASSOCIATION: Khar'kovski	y inzhananna aka	3
Institute of Engineering Econ SUBMITTED: 03Mar64	nomics) ENCL: 0	ODE: MM, GC
NR REF SOV: 014	OTHER:	

MINENKO, V.I., kand.khim.nauk; PETROV, S.M.

Characteristics of practical application of magnetic water treatment. Bezop.truda v prom. 6 no.6:29-31 Je '62. (MIRA 15:11)

1. Khar'kovskiy inzhenerno-ekonomicheskiy institut.
(Feed-water purification)

MINENKO, V.I., kand.khimicheskikh nauk; ZLUNITSYN, S.A., kand.fizikomatematicheskikh nauk; PETROV, S.M., kand.khimicheskikh nauk; ROMAS*KO, S.D., kand.geolog-mineralogicheskikh nauk

Concerning the effect of magnetic fields on the physical properties of water. Prom.energ. 17 no.5:24-26 My 162. (MIRA 15:5) (Feed-water purification)

FCHELKO, I.G., red.; MINENKO, V.M., red.; ZARKH, I.M., tekhn. red.

[Materials of the Conference on Aviation Meteorology] Materials Nauchnoi konferentsii po aviatsionnoi meteorologii. Pod red. I.G.Pchelko. Moskva, Gidrometeoizdat, 1963. 127 p. (MIRA 16:12)

1. Nauchnaya konferentsiya po voprosam aviatsionnoy meteorologii, Moscow, 1960.

(Meteorology in aeronautics)

RAYDIN, Sergey Stepanovich; MINENKO, V.M., red.; ZEMTSOVA, T.Ye., tekhn. red.

[Runoff and the levels of the Volga Delta]Stok i urovni del'ty Volgi. Moskva, Gidrometeoisdat, 1962. 336 p. (MIRA 16:2) (Volga Delta—Runoff)

SIMONOV, A.I., otv. red.; MINENKO, V.M., red.

[Oceanographic tables for the Caspian Sea, Aral Sea and Sea of Azov] Okeanologicheskie tablitsy dlia Kaspiiskogo, Aral skogo i Azovskogo morei. Moskva, Gidrometeoizdat 1964. 139 p. (MIRA 17:11)

1. Leningrad. Gosudarstvennyy gidrologicheskiy institut.

BELYAYEV, Igor', Petrovich; BAYDIN, S.S., kand. geogr. nauk, nauchn. red.; MINENKO, V.M., red.; ZARKH, I.M., tekhn. red.

[Hydrology of the Terek Delta] Gidrologiia del'ty Tereka. Pod red. S.S.Baidina. Moskva, Gidrometeoizdat, 1963. 207 p. (MIRA 16:12)

(Terek River--Delta)

SORKIMA, Anna Il'inichna; TAUBER, G.M., otv. red.; MINENKO, V.M., red.; ZAHKH, I.M., tekhn. red.

[Types of atmospheric circulation and associated wimi fields over the northern part of the Pacific Ocean] Tipy atmosfermoi teirfuliateii i sviasannykh s nei vetrovykh polei nad severmoi chest'iu Tikhogo okeana. Moskva, Gidrometebisdat (otd-nie), (MIRA 16:6)

[Pacific Ocean-Winds]

ALMAZOV, A.M., doktor geogr. nauk; BONDAR, K.; VAGIN, N.F.;

GEDERIM, V.; D'YAKONU, K.[Diaconu,C.]; MITSE,P.[Mita,P.];

STENESKU,V.[Stanescu,V.]; STENESKU, S.[Stanescu,S.];

MAYSTRENKO, Yu.G.; MIKHAYLOV, V.N., kand. geogr. nauk;

NIKIFOROV, Ya.D., kand.tekhn. nauk; RAY, I.A.; RODIONOV,

N.A.; MINENKO, V.M., red.; ZARKH, I.M., tekhn. red.

[Hydrology of the region of the Danube estuary] Gidrologiia ust'evoi oblasti Dunaia. [By] A.M.Almazov i dr. Moskva, Gidrometeoizdat (otdelenie), 1963. 382 p. (MIRA 17:1)

1. Gosudarstvennyy okeanograficheskiy institut Glavnogo upravleniya gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR (for Mikhaylov, Nikiforov, Rodionov).

2. Dunayskaya gidrometeorologicheskaya observatoriya Upravleniya gidrometeorologicheskoy sluzhby Ukr.SSR (for Vagin, Ray).

3. Institut gidrobiologii AN Ukr.SSR (for Almazov, Maystrenko).

4. Nauchno-issledovatel'skiy institut gidrotekhniki Komiteta vodnogo khozyaystva Rumynskoy Narodnoy Respubliki (for Bondar, Gederim, D'yakonu, Mitse,, Stenesku, V., Stenesku, S.).

ZMIYEVA, Yelena Stepanovna; SHASTIN, A.P., otv. red.; MINENKO, V.M., red.

[Forecasts of the inflow of water into the Kuybyshev and Volgograd Reservoirs] Prognczy pritoka vody k Kuibyshevskomu i Volgogradskomu vodokhranilishcham. Moskva, Gidrometeoizdat, 1964. 255 p. (MIRA 17:12)

KOSTYANITSYN, Mikhail Nikolayevich; NIKIFOROV, Ya.D., kand. tekhn. nauk, nauchn.red.; MINENKO, V.M., red.

[Hydrology of the estuary region of the Dnieper and Southern Bug] Gidrologiia ust'evoi oblasti Dnepra i IU.Buga. Moskva, Gidrometeoizdat, 1964. 334 p. (MIRA 18:3)

ROGOV, Mikhail Mikhaylovich, kand. geogr. nauk, st. nauchn. sotr.; ROMASHIN, Vladimir Vladimirovich, st. inzh.-gidrolog; SHTEYNBAKH, Boris Vladimirovich; MIKHAYLOV, V.N., red.; MINENKO, V.M., red.

> [Hydrology of the estuary area of the Western Dvina] Gidrologiia ust'evoi oblasti Zapadnoi Dviny. Moskva, Gidrometeoizdat, 1964. 348 p. (MIRA 17:12)

1. Gosudarstvennyy okeanograficheskiy institut (for Rogov). 2. Nachal'nik Rizhskoy ust'yevoy gidrometeostantsii (for Shteynbakh). 3. Rizhskaya ust'yevaya gidrometeostantsiya (for Romashin).

APPROVED FOR RELEASE: 06/14/2000

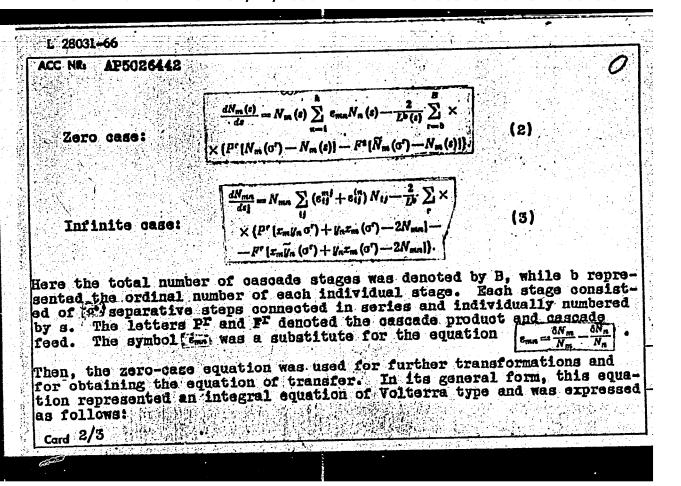
CIA-RDP86-00513R001134410018-8"

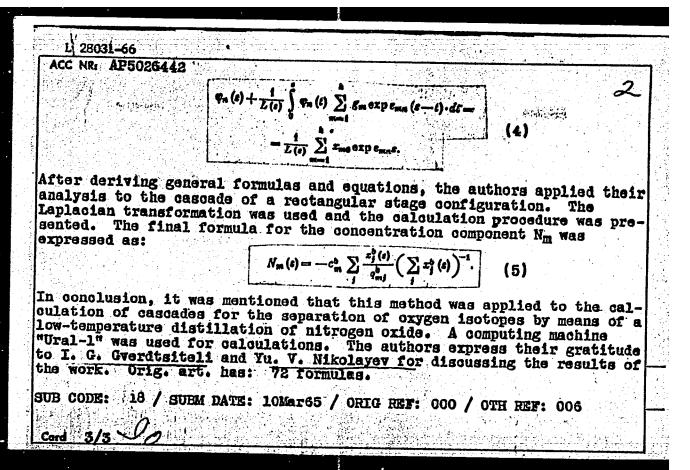
ZOTIN, M.I., st. nauchn. sotr.; SEREBRYAKOV, A.V., mlad. nauchn. sotr.; ALPATOVA, T.A., mlad. nauchn. sotr.; SEZEMAN, N.A., mlad. nauchn. sotr.; KRIVONOGOV, M.S.; ZHILOY, M.; PREBYSHEVSKAYA, M.M.; SEDELKOV, V.A., inzh.; MINENKO, V.M., red.

[Hydrology of the estuary region of the Northern Dvina] Gidrologiia ust'evoi oblasti Severnoi Dviny. Moskva, Gidrometeoizdat, 1965. 375 p. (MIRA 18:8)

1. Moscow. Gosudarstvennyy okeanograficheskiy institut.
2. Gosudarstvennyy okeanograficheskiy institut, Moskva (for Zotin. Serebryakov, Alpatova, Sezeman). 3. Nach nik gidrokhimicheskey laboratorii Severnogo upravleniya gidrometeorologicheskoy sluzhby (for Prebyshevskaya). 4. Nachal nik Severc-Dvinskoy ust'yevoy stantsii (for Krivonogo).
5. Severc-Dvinskaya ust'yevaya stantsiya (for Midelkov)

L 28031-66 EWT(m)/ETC(f)/EPF(n)-2/EWG(m) SOURCE CODE: UR/0089/65/019/004/0360/0367 ACC NR. AP5026442 Kucherov, R. Ya.; Minenko, V. P. ORG: None TITIE: Theory of multicomponent isotope separation in cascades SOURCE: Atomnaya energiya, v. 19, no. 4, 1965, 360-367 ropic rads: redicisotope, isotope separation ABSTRACT: A theoretical study was made of cascades for multicomponent isotopic mixtures consisting of XY molecules. It was assumed that the elements X and Y were different. The cascades of an arbitrary distribution flow rate profile L(s) were considered and a transfer equation system was derived. The isotopic exchange rate v was formulated for two (zero and infinite) limiting cages. This rate was expressed, as follows: Nmm (0) - Nmm (14) Nam (fe) - Knille where New is the molar concentration of the INTE components and xm and yn denote respectively the molar fractions of isotopes. Then, the equations for the zero and infinite cases were derived and presented in the following forms: UDC: 621.039.31 Card 1/5





Minenko, Yu.

107-57-6-37/57

AUTHOR: Dzhakoniya, V., and Minenko, Yu. (Leningrad)

TITLE: Color Television (Tsvetnoye televideniye)
PERIODICAL: Radio, 1957, Nr 6, pp 40-44 (USSR)

ABSTRACT: A short description of the NTSC compatible color television is given.

"This system is usually called NTSC in foreign literature." A few color principles are set forth, and transmitting and receiving color TV systems are described in some detail. NTSC means National Television System Committee (IISA).

There are ten figures in the article.

AVAILABLE: Library of Congress

Card 1/1

AKSENTOV, Yu.V.; VEREVKIN, N.S.; ZHEREL', B.G.; ZLOTNIKOV, S.A.;
KOLIN, K.T.; KONDRAT'YZV, A.G.; MINENKO, Yu.G.; ODWOL'KO,
V.V.; TARANETS, D.A.; SHMAKOV, P.V., red.; VENGRENTUK, L.I.,
red.; KARABILOVA, S.F., tekhn.red.

[Television; general course] Televidenie; obshchii kurs. Pod red. P.V.Shmakova. Moskva, Gos.izd-vo lit-ry po voprosam sviasi i radio, 1960. 391 p. (MIRA 13:12) (Television)

KONDRATIYEV, A.G.: MINENKO, Yu.G.

Outlook for the use of vidicons in low frame frequency television systems. Tekh.kino i telev. 4 no.7:63-67 Jl '60. (MIRA 13:7)

l. Kaiedra televideniya Leningradskogo elektroteknicheskogo instituta svyazi.

(Television—Transmitters and transmission)

31845 \$/194/61/000/010/082/082 D271/D301

6,7000 **AUTHORS:**

Parfenov, Yu.A., Kopacheva, Yu.I., Goryachev, V.A., Minenko, Yu.G. and Mosolova, G.K.

TITLE:

Apparatus for automatic measurement of crosstalk

attenuation

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 2-3, abstract 10 L10 (Tr. nauchnotekhn. konferentsii Leningr. elektrotekhn. in-ta

svyazi, no. 1, L., 1961, 133-141)

Measurement of near-end crosstalk attenuation in TEXT: multi-pair local telephone cables is at present both labor-consuming and imperfect. In order to reduce time waste and improve the supervision of the condition of local cables, an apparatus was developed for automatic measurement of crosstalk attenuation which permits automatic detection of low crosstalk attenuation pairs. The capacity of the equipment is 200 x 2. The equipment is composed of:

Card 1/2

31845 S/194/61/000/010/082/082 D271/D301

Apparatus for automatic measurement...

a device for automatic selection of pairs and for signalling and an electronic level indicator. The apparatus operates in the following manner: a relay circuit connects a 800 c/s generator, + 3.0 neper level, one after another to all pairs which are the source of crosstalk; electronic level indicator is connected in sequence to all pairs subject to crosstalk; one by one, all combinations of pairs are explored. In the presence of a combination with reduced crosstalk attenuation the operation is blocked and the signalling system indicates numbers of the interfering and disturbed pairs; subsequently, crosstalk level is measured by a high resistance level indicator, and crosstalk attenuation is computed. Basic circuits of the parts of the system are shown and their principles of operation are described. Abstracter's note: Complete translation

Card 2/2

S/194/61/000/011/066/070 D271/D302

AUTHORS:

Kondrat'yev, A.G., Lukin, M.I. and Minenko, Yu.G.

TITLE:

Objective measurements of quality indices of tele-

vision signals

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 11, 1961, 26, abstract 11 K195 (Tr. nauchnotekhn. konferentsii Leningr. elektrotekhn. in-ta

svuazi, no. 2, L., 1961, 3-6)

TEXT: Report on the equipment for objective evaluation of picture quality which was developed in 1960 by the Television Department of the Leningrad Electrotechnical Telecommunications Institute. The equipment includes instruments for measuring the definition, signal-to-noise ratio, horizontal trailing, reflected signals, levels and non-linearity of the display. Instruments are in development for measuring the depth of the picture and contrast compression distortions. Abstracter's note: Complete translation

Card 1/1

6.6000

31085

S/187/61/000/012/002/004 D053/D112

AUTHOR:

Minenko, Yu.G.

TITLE:

Automatic measuring of the signal-to-noise ratio during

television broadcasting

PERIODICAL:

Tekhnika kino i televideniya, no. 12, 1961, 11-19

TEXT: A method and a device for automatic measuring of the signal-to-noise ratio during TV broadcasting are described. They were developed at the kafedra televideniya LEIS (Department of Television at the LEIS) and described in April - May 1960 at annual conferences of the VNTORIE im. A.S. Popova (VNTORIE im.A.S.Popov) in Moscow and Leningrad. In this method, the distribution of the spectral noise density is measured at three discrete points of the video frequency band and then integrated. The signal-to-noise ratio is then computed on the basis of the obtained integral noise and the signal strength. A simplified block diagram of the signal-to-noise ratiometer is illustrated in Fig.2. Its main component units are: (1) sync pulse limiter; (2) automatic level regulator; (3) weighting filter; (4) measuring unit for the video-signal amplitude; (5) calibrated pulse generator; (6) noise measuring unit at f1 frequency; (7) noise measuring unit at f2 frequency;

Card 1/3

31085 S/187/61/000/012/002/004 D053/D112

Automatic measuring ...

(8) noise measuring unit at f₃ frequency; (9) time-selection signal generator; (10) mixer; (11) signal-to-noise ratio computer; and (12) indicator. Measurements can be conducted for video signals with and without sync pulses. A prototype of this meter assured continuous measurements for 8 hours after a 40-minute heating-up time. The stabilization of filament and plate voltages permits a voltage variation of the supply network from +5 to -10%. There are 10 figures and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The two English-language references are L.E. Weaver, Noise Level Measurement in Television, Wireless World, No.6,1960; D. Fink, Television Engineering Handbook, New York, 1957.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut svyazi im.

M.A. Bonch-Bruyevicha (Leningrad Electrotechnical Institute of Communications im. Bonch-Bruyevich).

Card 2/3

AKSENTOV, Yu.V.; GOL'DIN, A.A.; DZHAKONIYA, V.Ye.; DUSHKEVICH, N.I.;
YERGANZHIYEV, N.A.; YEFIMKIN, V.I.; LIPAY, I.N.; MINENKO, Yu.G.;
ODNOL'KO, V.V.; PEREVEZENTSEV, L.T.; TARANETS, D.A.; SHMAKOV,
P.V., prof.; KUKOLEVA, T.V., red.; BELYAYEVA, V.V., tekhn. red.

[Theory and practice of color television] Teoriia i praktika tsvetnogo televideniia. Moskva, Sovetskoe radio, 1962. 661 p. (MIRA 16:1)

(Color television)

MINENKOV, A.N., inzh.; SIL'CHENKOVA, E.P., inzh.

Accounting system based on forms for the output and wages at the Moscow Computer and Analyzer Plant. Mekh.i avtom.proizv.

16 no.8:44-45 Ag '62. (MIRA 15:9)

(Moscow-Calculating machines-Accounting)

MINENKOV, B., inzh., master sporta.

Electric tensiometry and sports. Tekh.mol. 29 no.3:24 161.

(MIRA 14:3)

(Sports--Equipment and supplies) (Tensiometers)

8/145/60/000/008/003/008 D211/D304

Minenkov, B.V., Assistant

Design of an inhomogeneous beam for strength and ri-AUTHOR:

TITLE:

Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyegidity niye, no. 8, 1960, 68 - 76 PERIODICAL:

TEXT: The author considers the torsion of an inhomogeneous beam under the following assumptions: 1) The beam has circular cross section: tion; 2) The layers of material with different values of the shear modulus G are situated concentrically and do not glide on each other; 3) The hypothesis of plane cross sections and straight-line radial to reliate A) Small closest deformations and section and sect dii is valid; 4) Small elastic deformations and Hooke's law are con-Berved. Expressions for the stresses and the torsional angle are deduced. Pure bending of an inhomogeneous beam is considered assuming that 1) The cross section is symmetrical with respect to the plane of bending; 2) The layers of material with different moduli of elasticity are stimuted in an arbitrary ticity are situated in an arbitrary manner in the cross-section and

Card 1/2

Design of an inhomogeneous beam for ... S/145/60/000/008/003/008

do not glide on each other; 3) The hypothesis of plane cross sections is valid; 4) Hooke's law is valid; 5) Poisson's coefficient pent axis of the beam is deduced. There are 5 figures and 2 Sovietbloc references.

ASSOCIATION: MVTU im. N.E. Baumana (MVTU im. N.E. Bauman)

SUBMITTED: April 21, 1959

Card 2/2

MINENKOV, B.V., inzh.

Experiment in determining the strength safety factor of sport, racing, and slalom skis. Der. prom. 10 no.8:14-15 Ag '61.

(Skis and skiing) (MIRA 14:8)

MINENKOV, B.V., inch.

Machine for automatic recording of the ski deflection diagram.

Der.prom. 11 no.6:14 Je '62.

(Skis and skiing) (Testing machines)

ACCESSION NR: AP3004620

8/0145/63/000/003/0051/0057

AUTHOR: Minenkov, B. V. (Assistant)

TITLE: Application of technical hypotheses for recording creep in plastics

SOURCE: IVUZ. Mashinostroyeniye, no. 3, 1963, 51-57

TOPIC TAGS: creep hypothesis, isotropic thermoplastic, tension relaxation curve, plastic, single axis elongation

ABSTRACT: The possibility of using analytical creep hypotheses to record the time-behavior of several isotropic thermoplastics has been considered. The first is a power law aging expression of the type

where n - creep deformation; σ - stress; Ω - a function of time and temperature. For n = 1.76 this formula is compared to experimental data. The second is the

where a, b, c are coefficients depending on type and temperature of the material. The tension relaxation curve at t=20C from this expression is also compared to

ACCESSION MR: AP3004620

experimental creep results in two types of plastics. The experimental results show good agreement with these formulas. The author concludes that under conditions of the show theories are justified for thermoplastics. Orig. art. has: 7 figures, 5 formulas, and 2 tables.

ASSOCIATION: MVTU im. N. E. Baumana (MVTU)

SUBMITTED: O6Dec62

DATE AQ: 15Aug63

EMCL: 00

SUB CODE: ML

NO REP SOV: 003

OTHER: 000

8/0191/64/000/009/0038/0041

ACCESSION NR: AP4045023

AUTHOR: Minenkov, B. V., Slyudikova, N. N. TITLE: Effect of stabilizing additives on the creep and relaxation of Kapron

SOURCE: Plasticheskiye massy*, no. 9, 1964, 38-41

TOPIC TAGS: friction, abrasion, lubricant, filler, barium sulfate, cadmium iodide, tensile strength, elongation, elastic modulus, creep, thermoplast, relaxation, polycaprolactam, Kapron

ABSTRACT: The effect of different fillers, such as barium sulfate and cadmium iodide, on the physico-mechanical properties of Kapron test samples was investigated at 20 C and 55% relative humidity. The following compositions were used in the experiments: pure Kapron (polycaprolactam); Kapron + 3% Cdl₂, Kapron + 20% BaSO₄ and Kapron + 20% BaSO₄ and Kapron + 3% Cdl₂ molded at 270–280 C and 1000–1200 kgs/cm² pressure for 30 sec. The tensile strength and compressibility were measured at a rate of deformation $\xi=0.1\%$ min. The extension-compression curves show that the addition of CdI2 decreased the elongation at break of pure Kapron by almost 60% and increased the strength by 15%; 20% BaSO4 also decreased the elongation at the break and slightly increased the strength. In both cases,

Cord

the modulus of elasticity increased by 23-25%. For all compositions, there was a linear the modulus of elasticity increased by 23-25%. For all compositions, there was a linear correlation between stress and strain at the given experimental rate, up to 400-500 correlation between stress and strain at the given experimental rate, up to 400-500 correlation between stresses up to 300 kgs/cm², relaxation began 40-50 sec. after removal kgs/cm². Under stresses up to 300 kgs/cm², relaxation began 40-50 sec. The compressibility of all the materials was practically the same. ACCESSION NR: AP4045023 kgs/cm. Under stresses up to 300 kgs/cm., relaxation began 40-50 sec. after remo of the load. The compressibility of all the materials was practically the same. The machanical properties of the test semples under a short-term load are tabulated. Cre or the tolder. The compressionity of all the materials was practically the same. The mechanical properties of the test samples under a short-term load are tabulated. Creep ourses showed the highest around the materials was practically the same. mechanical properties of the test samples under a short-term load are tabulated. Cree curves showed the highest creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep of mire Kapron by 50%. When stress relaxation was determined for 500 hours at the creep of mire Kapron by 50%. curves snowed the nighest creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep of pure Kapron by 50%. When stress relaxation was determined for 500 hours at a creep of pure Kapron by 50%. When stress relaxation was determined for 50% and 3% CdI₂ decreased the relaxation of 20% BaSO₄ and 3% CdI₂ decreased the relaxation of 20% BaSO₄ and 3% CdI₂ decreased the relaxation of 20% BaSO₄ and 3% CdI₂ decreased the relaxation of 20% BaSO₄ and 3% CdI₂ decreased the creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep for pure Kapron; 3% CdI₂ + 20% BaSO₄ decreased the creep for pure Kapron by 50%. creep of pure Kapron by 50%. When stress relaxation was determined for 500 nours at a relaxation of 20% BaSO4 and 3% CdI2 decreased the reinitial load of 150 or 100 kg8/cm², addition of 20% BaSO4 and 3% CdI2 decreased the reinitial load of 150 or 100 kg8/cm², addition of 20% BaSO4 and 3% CdI2 decreased the reinitial load of 150 or 100 kg8/cm², addition of 20% BaSO4 and 3% CdI2 decreased the reinitial load of 150 or 100 kg8/cm², addition of 20% BaSO4 and 3% CdI2 decreased the reinitial load of 150 or 100 kg8/cm². initial load of 150 or 100 kgs/cm², addition of 20% BaSO₄ and 3% CdI₂ decreased the relaxation of pure Kapron by 30%. A comparison showed that the joint effect of these two companies decreased not only the relaxation of mixe Kapron but also constituted the relaxation of mixe Kapron by 30%. laxation of pure Kapron by 30%. A comparison snowed that the joint effect of these two components decreased not only the relaxation of pure Kapron but also equalized its flow. This is an assential factor in the determination of the service shilltr of Kapron products. components decreased not only the relaxation of pure Kapron but also equalized its flow.

This is an essential factor in the determination of the serviceability of Kapron products.

The permanent characteristics of Kapron and thus improved allottly by additions. This is an essential factor in the determination of the serviceanility of Kapron products.

The permanent characteristics of Kapron are thus improved slightly by additives.

The permanent characteristics of Kapron are thus improved slightly by additives. The permanent characteristics of Kapron are thus improved slightly by additives. The relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the relationship between the stress ratio and the creep rate ratio at 20 C is shown in the stress ratio at

Enclosure. Orig. art. has: 5 figures, 1 table and 3 formulas.

ASSOCIATION: None

SUB CODE: MT

SUBMITTED: 00 NO REF BOV: 003

2/3

ENCL: 01 OTHER: 000

PPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R00115

ACCESSION NR: AP4045023

ENCLOSURE: 01

Fig. 1 - Relationship between the stress ratio and the creep rate ratio at 20°C;

1 - pure Kapron, n = 1.5; 2 - Kapron + 3% CdI₂, n = 1.40; 3 - Kapron + 20% BaSO4, n = 1.43;

4 - Kapron + 20% BaSO₄ + 3% CdI₂, n = 1.28.

MINENKOV, B.V.; ARKIN, Ya.G.

Selecting the optimum design of sports racing skis. Der. prom. 15 no.1:11-13 Ja *66. (MIRA 19:1)

1. TSentral'noye opytno-konstruktorskoye byuro sportivnogo oborudovaniya i inventarya.

POOREDISOV, B., kand. tokho. neak (Novocherkanek); HINENKOV. I., inch. (Kovocherkasek)

Device for locating welded joints in steel wire. Radio no.1: 43 Ja *66. (HRA 19:1)

MINENKOV, Igor' Borisovich; IOFIS, Ye.A., kandidat tekhnicheskikh nauk, redaktor; TRIESHEV, A.N., redaktor; VOLYMTSEVA, V., tekhnicheskiy redaktor

[Photographic reproductions] Reproduktsionnaia fotos"eaka. Pod obshchei red.B.A.Iofisa. Moskva, Gos.isd-vo "Iskusstvo," 1955. 70 p. (Biblioteka fotoliubitelia, no.6) [Microfilm] (MLRA 9:1) (Photography--Reproduction of plans, drawings, etc.)

MINENKOV, I.B.

THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.

Some aspects of macrophotography. Zhur. nauch. i prikl, fot. 1 kin. 1 no.6:446-454 H-D '56. (MLRA 10:2)

1. Moskovskiy gosudarstvennyy universitet imená M.V. Lomonosova, Kafedra uchebnoy i nauchnoy fotografii i kinematografii.

(Photography--Enlarging)

MIMBHKOV, I.

Photomicography. Sov.foto 18 no.12:44-47 D '58. (MIRA 11:12) (Photomicography)

MINENKOV, Igor' Borisovich; IOFIS, Ye.A., kand.tekhn.nauk, obshchiy red.;

[Reproduction photography] Reproduktsionnaia fotos emka. Izd.2., ispr. i dop. Pod obshchei red. E.A.Iofisa. Moskva, Gos.izd-vo Iskusstvo. 1959. 109 p. (Biblioteka fotoliubitelia, no.6) (MIRA 12:9)

(Photography -- Reproduction of plans, drawings, etc.)

MINERKOV, I.

Program of photography clubs for beginners. Sov.foto. 19 no.1:44-46
Ja *59. (MIRA 12:3)

1. Starshiy prepodavatel kafedry nauchnoy fotografii Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova.

(Photography—Societies, etc.)

MIMENEOV, I.

Systematic instructions for a program in photographic clubs for beginners. Sev. fete 19 ne.2:26-30 F 159. (MIRA 12:3) (Photography—Secieties, etc.)

PHASE I BOOK EXPLOITATION S

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Minenkov, Igor' Borisovich

Makrofotografiya (Macrophotography) Moscow, Gos. izd-vo "Iskusstvo," 1960. 175 p. Errata slip inserted. 10,000 copies printed.

Ed.: A.N. Teleshev; Tech. Ed.: A.N. Chicherin.

PURPOSE: This book is intended for the personnel of scientific and technical photographic laboratories and for advanced smateur photographers.

COVERAGE: The book discusses a complex of macrophotographic problems and methods. Special features of macrophotography equipment, and techniques are described. The purpose of macrophotography and its many applications to the fields in which neither microphotography nor (conventional) photography can fulfill the requirements of scientists or investigators are given. Instances, in which it is difficult to differentiate between macrophography and microphotography, are discussed. Data on Soviet objectives and equipment used in macrophotography are listed. No personalities are mentioned. There are 18 references: 15 Soviet (2 translations), 4 German, and 1 Czech.

Card 1/5

BARINOV, L.V.; GEODAKOV, A.I.; GRINEVICH, G.Ya.; IOFIS, Ye.A., kand. tekhn. nauk; KRIMERMAN, P.M.; LAPAURI, A.A.; MINENKOV, I.B.; PANFILOV, N.D.; PELL!, V.G., kand. tekhn. nauk; PERTSIK, A.G.; POLYANSKIY, N.N.; POPOV, A.N.; SIMONOV, A.G.; SUROV, S.G.; SHASHLOV, B.A.; TELESHEV, A.N., red.; MALEK, Z.N., tekhn. red.

[Manual for the amateur-photographer] Spravochnik fotoliubitelia. Pod obshchei red. E.A. Iofisa i V.G. Pellia. Moskva, Iskusstvo, 1961. 530 p. (MIRA 15:7)

(Photography—Handbooks, manuals, etc.)

MINENKOV, I.

Slides and filmstrips. Sov.foto 22 mo.9:32-34 S '62.

(MIRA 15:8)

(Filmstrips)

POGREBTSOV, B.Ya.; MINENKOV, I.I.

Using a generator with a bypass diode to determine the thickness of the zinc covering of a steel wire. Trudy NPI 137:37-46 '62. (MIRA 16:10)

MIMENKOV, V.V.

A method of studying the geometrical layout of a building and a tower crans in the erection of residential and public buildings.

Trudy NPI 125:9-18 '61. (MIRA 15:7)

(Granes, derricks, etc.) (Building)

MINENKOV, V.V.

Nonograms for choosing tower cranes by geometrical parameters in the erection of residential and public buildings. Trudy NPI 125:43-49 '61. (MIRA 15:7) (Cranes, derricks, etc.) (Building)

MINENKOV, V.V.

Selection of a boom for an erecting crane. Trudy NPI 144:55-67 (MIRA 17:8)

MINENKOV, V.V.

Weight relationships of precast elements of apartment houses during the assembling by arm cranes. Trudy NPI 145:29-39 '64.

(MIRA 18:12)

BORISOVA, N.B.; GLADRIY, M.F.; MINENKOVA, V., red.

[Winter rape for feed] Cziryi raps na korm. Moskva, Kolos, 1965. 58 p. (MIRA 18:8)

V.

AGAPOV, Andrey Fedorovich; MINKEKOVA, V.I., red.; SERGEYEV, V.I., red.; ZUBRILINA, Z.P., tekhn. red.

[High tomato yields] Vysokie urozhai pomidorov. Hoskva, Gos. izd-vo sel'khoz. lit-ry, 1960. 117 p. (HIRA 14:5) (Tomatoes)

POLYNSKIY, Pavel Aleksandrovich; MINKHKOVA, V.R., red.; BALLOD, A.I., tekhn.red.

Hogeniia Doliniuk. Moskva, Gos.izd-vo sel*khos.lit-ry, 1960.
111 p. (MIRA 14:1)
(Doliniuk, Evgeniia Alekseevas)

VIKHLYAYEV, I.I., prof.; CHEMIN, A.S., kand.tekhn.nauk; RUNOV, D.I., inzh.; TEREGULOV, I.Kh., inzh.; FATCHIKHIMA, O.Ye., kand.sel¹skokhoz.nauk; SHISHKOV, K.W., kand.sel¹skokhoz.nauk; MIMENKOVA, V.R., red.; BALLOD, A.I., tekhn.red.

[Manual on peat] Spravochnik po torfu. Moskva, Gos.isd-vo sel'khos. lit-ry, 1960. 318 p. (MIRA 14:2)

VOLKOV, Aleksandr Nikolayevich; GERASIMOV, B.A.; ZARING, P.V.; MUSHNIKOVA, K.S.; HIKIFOROV, A.M.; PROKOPEHKO, S.F.; POPOV, S.D.; CHUVAKHIN, V.S.; MINERKOVA, V.R., red.; GOR', Z.D., tekhn.red.; GUREVICH, M.M., tekhn.red.

[Manual on controlling pests and diseases of farm crops] Posobie po bor'be s vrediteliami i bolesniami sel'skokhoziaistvennykh kul'tur. Izd.10, ispr. i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry. 1960. 615 p. (MIRA 13:11) (Agricultural pests) (Plant diseases)

YAKHTENFEL D, Pavel Aleksandrovich; MINENKOVA, V.R., red.; GUREVICH, M.M., tekhn. red.

[Cultivation of spring wheat in Siberia] Kul'tura iarovoi pshenitsy v Sibiri. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 359 p. (MIRA 15:2) (Siberia-Wheat)

KOTT, Stepan Alekseyevich, doktor sel'khoz. nauk; MINENKOVA, V.R., red.; GOR'KOVA, Z.D., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Weeds and weed control] Sornye rasteniia i bor'ba s nimi. 3.,
izd. perer. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry, zhurizd. perer. i dop. Moskva, Gos. izd-vo sel'khoz. lit-ry, zhurmalov i plakatov, 1961. 364 p.

(Weeds)

(Weed control)

ZAKHARCHENKO, A.L.; DEMCHENKO, P.V.; YAKUKHINA, A.F.; SOLOV'YEV, B.F.; KINSH, A.S.; MINENKOVA, V.B., red.; PEVZNER, V.P., tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Reference book on corn]Spravochňik po kukuruze. Moskva, Sel'khozizdat, 1962. 519 p. (MIRA 16:4) (Corn (Maise))

KOREN'KOV, D.A., kand. sel'khos. nauk; MIKHAYLOV, N.N., kand. sel'-khos. nauk; MINENKOVA. V.R., red.; EELOVA, N.N., tekhn. red.

[Store fertilizers carefully and use them properly] Bereshno khranit' i pravil'no ispol'sovat' udobreniia. Moskva, Sel'khozisdat, 1963. 127 p. (MIRA 16:8) (Fertilisers and manures)

ZUBENKO, V.Kh., kand. sel'khoz.nauk; MINENKOVA, V.R., red.; OKOLELOVA, Z.P., tekhn. red.

[Corn in postharvest and stubble plantings] Kukuruza v poukosnykh i pozhnivnykh posevakh. Moskva, Sel'khozizdat, 1963. 158 p. (MIRA 17:1)

ALEKSEYEVA, Ye.I., kand. sel'khoz. nauk; BUZINOV, P.A., kand.

sel'khoz. nauk; VODOLAGIN, V.D.; VOLKHOVSKAYA, U.V.;
GLUSHCHENKO, N.N., kand. biol. nauk; GURVICH, N.L., doktor
biol. nauk; ZHELEZNOV, P.A., kand. sel'khoz. nauk; KSENDZ,
A.T.; LESHCHUK, T.Ya.; LUK'YANOV, I.A., kand. sel'khoz.
nauk; MAYCHENKO, Z.G., kand. sel'khoz. nauk; TANASIYENKO,
F.S., kand. khim. nauk; ZNAMENSKIY, M.P.; PERSIDSKAYA, K.G.;
PODLESNOVA, A.F.; ROGOCHIY, I.Ya.; REZNIKOV, A.R.; SHUL'GIN,
G.T.; KHOTIN, A.A., doktor sel'khoz. nauk; LAPSHINA, O.V.,
red.; MINENKOVA, V.R., red.; MAKHOVA, N.N., tekhn. red.;
BALLOD, A.I., tekhn. red.

[Aromatic plants] Efiromaslichnye kul'tury. Moskva, Sel'-khozizdat, 1963. 358 p. (MIRA 16:12) (Ukraine-Aromatic plants)

CIA-RDP86-00513R001134410018-8

TREPACHEV, Ye.P., kand. sel'khoz. nauk; MINENKOVA, V.R., red.; TRUKHINA, O.N., tekhn. red.

[Corn as a monocultural crop] Kukuruza na postoiannykh poliakh. Moskva, Sel'khozizdat, 1963. 85 p. (MIRA 17:3)

PANNIKOV, V.D., prof.; MINENKOVA, V.R., red.

[Soils, fertilizers, and crops] Pochvy, udobrenia i urozhai.

Moskva, Izd-vo "Kolos," 1964. 335 p. (MIRA 17:5)

KOZHBEHRO, Verilly Yerceyerder, doktor sel'khoz. nauk, laureat heromekny premat Minenkova, V.R., red.

[Corn breeding] Selektsiia kukuruzy. Moskva, Kolos, 1965. 205 p. (MIRA 18:8)

NOVIKOV, A.Ye.; TASHCHEV, Ye.N.; MINENKOVA, V.R., red.; SHLEPANOV, V.M., red.

[Work experience of agricultural technical schools; some problems of theoretical and industrial training] Iz opyta raboty sel'skokhoziaistvennykh tekhnikumov; nekotorye voprosy teoreticheskogo i proizvodstvennogo obucheniia. Moskva, Kolos, 1964. 220 p. (MIRA 19:1)

MINENKOVA, Yo. A. 3 VEPMER!, Ya.M.

Chemotherapy of tumors of the adrenel cortex; preparation DDD, Vop. onk. 11 no.10:106-113 '65. (MIR4 18:10

1. Vsesoyuzmyy institut mauchnoy i tekhnichaskoy informatsii AN SSSR.

MINENOK, P.M., inzh. Expedition ship "Mikhail Lomonosov." Sudostroenie 25 no.5:4-7 My 159. (MIRA 12:8)

(Ships)

MINENOK, P.M.

Pusher tugs for the Danube Fiver. Sudostroenic no.8:13-16 Ag *65. (MIRA 18:9)

MINERAVIN, S.M.; ZHAK, S.P.

Observations on specific therapy of mixed experimental infection caused by Clestridium perfringens and cedematiens. Zhur. mikrobiol. epid. i immun. 41 no.3:114-118 Mr '64. (MIRA 17:11)

1. Odesskiy meditsinskiy institut imeni Pirogova.

MINERVIN, A. B., Candidate Phys-Math Sci (diss) -- "Theoretical investigation of electron capture in acceleration in betatrons and synchrotrons with betatron starting". Moscow, 1959. 7 pp (Acad Sci USSR, Phys Inst im P. N. Lebedev), 150 copies (KL, No 24, 1959, 126)

21(9) AUTHORS:

Ryazin, P. A., Minervin, A. B.

SOV/89-6-1-10/33

TITLE:

The Investigation of the Capture of Electrons Under the Conditions of Acceleration in Betatrons and Synchrotrons (K issledovaniyu zakhvata elektronov v rezhim uskoreniya v

betatronakh i sinkhrotronakh)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 1, pp 68 - 69 (USSR)

ABSTRACT:

The problem of electron capture during acceleration is theoretically investigated, and a non-contradictory solution of the many-electron problem is derived in consideration of the boundary and initial conditions. By means of the derived formulae it is possible to determine the coordinates of the electrons and fluxes in the vacuum chamber of the accelerator. By means of the iteration method it is further possible to calculate the non-steady fluxes in the chamber and to give all other fundamental parameters of the accelerator. If J = 0 (electron flux in the chamber) the equation of the single-electron theory is obtained, which is applicable also in the case of low emission currents

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In the case of high emission currents the mechanism of collective interaction is the decisive factor. Capture

The Investigation of the Capture of Electrons Under SOV/89-6-1-10/33 the Conditions of Acceleration in Betatrons and Synchrotrons

takes place both on the front and on the rear of the impulse. Between these two there is a difference which still remains to be explained.

If an internal electron feed is used, capture on the front is equal to capture on the rear part of the impulse in the case of external feed. This relation is reciprocal. A more detailed description of the theory of accurate and approximated solution methods for the characteristic properties of a betatron is in preparation.

SUBMITTED: February 10, 1958

Card 2/2

21,2100

69160

3/139/59/000/06/017/034

E032/E114

AUTHORS: Ryazin, P.A., and Minervin, A.B.

TITLE: On the Capture of Electrons Into the Acceleration Process

in Betatrons and Synchrotrons
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1959, Nr 6, pp 112-123 (USSR)

ABSTRACT: This paper was presented at the Inter-Collegiate

Conference on Accelerators (Tomsk, February, 1958). Self-consistent solution of the many-electron problem is sought subject to boundary and initial conditions. The intensity of the axially symmetric magnetic field during the time of admission and the injection voltage are taken as the initial conditions, and collisions of electrons with the rear wall of the injector, and with the walls of the chamber, as the boundary conditions. Among the factors which influence the capture process, the theory considers adiabatic contraction of electronic orbits due to the growth of the magnetic field, the effect of selfinduction of the non-steady current in the chamber, and the effect of the Coulomb interaction between electrons

which leads both to a reduction in the amplitude of

betatron oscillations and to the displacement of

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69160 8/139/59/000/06/017/034 B032/E114

On the Capture of Electrons into the Acceleration Process in Betatrons and Synchrotrons

instantaneous orbits. The expressions obtained may be used to calculate current pulses in the chamber, and betatron characteristics under different working conditions. The theory gives both qualitative and quantitative explanation of processes which take place during the capture both on the leading and the trailing edges of the injection pulse, as well as on its flat part. The equations of motion are solved taking into account all the above effects. The capture mechanism is dependent on the Coulomb interaction and the collective interaction. The latter effect is described by three terms, the first of which describes the reduction in the amplitude of betatron oscillations during the decrease in the total non-stationary current in the chamber; the second describes the contraction of the orbits due to the latter decrease which is the result of a weakening in the radial repulsive forces in the space charge; and, finally, the third term describes the effect of self-induction in the beam during the capture process.

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69160 8/139/59/000/06/017/034 8032/8114

On the Capture of Electrons into the Acceleration Process in Betatrons and Synchrotrons

Acknowledgements are made to S.N. Stolyarov and A.V. Uspenskiy, and to B.M. Drozdov's section of the Computing Centre of the Academy of Sciences, USSR. There are 6 figures.

ASSOCIATION: Fizicheskiy institut imeni P.N. Lebedeva AN SSSR

(Institute of Physics imeni P.N. Lebedev, Academy

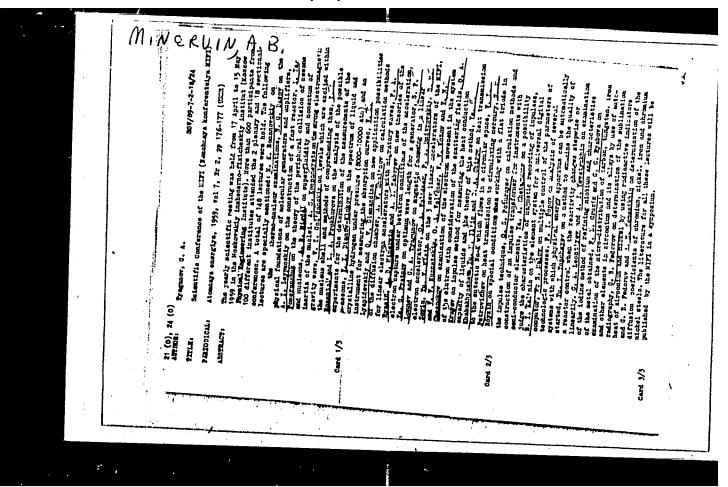
of Sciences, USSR)

SUBMITTED:

December 27, 1958

Card 3/3

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MINERVIN A.V.

Engineering geelegy characteristics of sedimentary cover rocks in the Tem'-Kelyvan' area. Mauch. dekl. vys. shkely; geel.-geeg. nauki ne.3:178-184 '58. (MIRA 12:1)

1. Meskevskiy universitet, geelegicheskiy fakul'tet, kafedra inshenerney geelegii.

(Tem' Valley--Engineering geelegy)
(Ob' Valley--Engineering geelegy)

MINERVIN, A.V.; SERGEYEV, Yo.M.

Surface deposits in the right-bank area of the lower Ob' Valley. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 13 no.3:143-150 '58. (MIRA 12:1)

1. Kafedra gruntoveneniya i inzhenernoy geologii Moskovskogo gos. universiteta.

(Ob' Valley-Rocks, Sedimentary)

MINERVIN, A.V.

Cover deposits of the second terrace above the flood plain on the left side of the Ob' Valley in the region between the mouth of the Irtysh River and the village Surgut. Vest. Nosk. un. Ser. biol. pochv., geol., geog. 13 no. 4:149-155 '58. (MIRA 12:4)

1. Kafedra gruntovedeniya i inshenernoy geologii Moskovskogo universiteta.

(Ob' Valley-Soils)

AUTHOR:

Minervin, A. V.

504/20-120-1-49/63

TITLE:

On the Age and Genesis of the Covering Sediments of the Tom'-Kolyvan' Zone (O vozraste i genezise pokrovnykh otlozheniy Tom'-kolyvanskoy zony)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 1, pp. 179-182 (USSR)

ABSTRACT:

The question of the stratigraphical position and of the origin of the loess deposits of West-Siberia, which form the upper horizons of the river terraces and the cover of the watersheds and slopes, is not decided yet. From publications (Refs 4 and other onas) the difference of the opinions of some authors on this question can be seen. The results from field and laboratory work served as material for this communication. The main conclusion of the work forms the separation of some age and genetic varieties in the loess mass(table 1). They are:

a) Covering sediments from the Middle Pleistocene time. They

lie upon typically alluvial and lake deposits of Middle Pleistocene age, which are faunally and paleobotanically characterized (Refs 1,2,5,6). b) Covering sediments from the Upper Pleistocene from the upper part of the covering complex. Ac-

Card 1/3

On the Age and Genesis of the Covering Sediments of the SOV/20-120-1-49/63 Tom'-Kolyvan'

> cording to the mollusks collected by I. Vashkovskiy and the auth or (determination by A. G. Eberzin) these deposits can be regarded to have settled in large stagnant fresh water basins or in water-rich slowly flowing rivers. c) Redent covering sediments. To them belong eluvial and deluvial varieties. A mantle--like, apparently Pleistocene character of these sediments shows up especially well in the regions of the leaning of the upper river terraces to older watershed regions. The material described above shows that the covering sediments of the north--west wing of the Tom!-Kolyvanskaya zone are of different age, different according to their genesis. and show according to age and genesis certain lithological properties. Therefore no reason exists to speak about their origin in any equal way. There are 1 table and 6 Soviet references.

FRESENTED:

January 10, 1958, by N. M. Strakhov, Member, Academy of

Sciences, USSR

SUBMITTED:

January 6, 1958

Card 2/3

On the Age and Genesis of the Covering Sediments of SOV/20-120-1-49/63 the Tom'-Kolyvan's Zone

1. Geology--USSR 2. Sedimentation--Sampling 3. Geological time

Card 3/3

MINERVIN, A. V., Cand of Geol-Min Sci -- (diss) "Genesis and Engineer-Geological Characteristics of the Deposits of the Valley of the Ob River (In Its Middle and Lowre Course)," Moscow, 1959, 23 pp (Mos State Univ im Lomonosov) (KL, 1-60, 120)

SERGEYEV, To.M.; MINERVIN, A.V.

Nature of the precess of losss formation in a Podsolic sone. Vest. Mosk.un. Ser. 4: Geol. 15 no.3:3-14 My-Je '60. (MIMA 13:8)

1. Kafedra gruntovedeniya i inshenernoy geologii Moskovskogo universiteta.
(Podsol) (Loess)

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14 6

AUTHOR: Minervin, A.V.; Sergeyev, Ye.M.

TITLE: New data for solution of the loess problem

SOURCE: AN SSR. Izvestiya. Seriya geologicheskaya, no. 9, 1964, 53-64

TOPIC TAGS: geology, loess, soil engineering, soil freezing

ABSTRACT: The authors review the principal hypotheses advanced to explain the origin of loess and point out that this problem has never heen solved. Although the authors disclaim any intention of an exhaustive review of these hypotheses, they discuss two basic aspects of the loess problem in detail. First, the fact that all existing hypotheses meet with convincing criticism and that it is clear that there is still no well-substantiated hypothesis of loess origin. Second, they stress that in most definitions of loess there is emphasis on its subsidence (tendency to become compacted) as a typical property. The following three aspects of loess are then discussed critically: 1) Loess does not occur everywhere; 2) There is a definite relationship between loess and the underlying rocks; 3) Loess associated with a gradual transition from the underlying rocks seemingly inherits some of the characteristics